BRUHAT BENGALURU MAHANAGARA PALIKE

(YELAHANKA DIVISION)

Name of Work

Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)

FOURTH AND FINAL BILL

QC REPORT

Package Amount: 21.35 Cr 2135 lakhs.

Project Management Consultancy:

Ninetech Infra Solution Pvt Ltd.

#14, 3rd Floor, Hithaa complex,

80 feet Ring Road (Kengeri),Nagadevanhalli,

BENGALURU – 560056, Karnataka.

Agency:

Sri K. Venkat Raju

NINETECH

INFRA SOLUTIONS PVT LTD

Bruhat Bengaluru Mahanagara Palike

Name of Work	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore
Consultant	M/s Nineteech Infra Solutions Pvt. Ltd.
Contractor	Sri K. Venkat Raju

QC Reports summary- 4th and Final Bill

Sl.No.	Particulars	Executed Qty.	Test conducted	MORTH frequency	Tests done	Remarks Pass/fail
1	GSB	1244.43 Cum	Gradation	For every 400 m^3	03	P
			Compaction Test	For Every 1000.00m^2	10	P
2	WMM	1745.24 Cum	Gradation	For every 200 m^3	09	P
			Compaction Test	For Every 1000.00m^2	35	P
3	Prime Coat	7600.13 Sqm	Rate of Spray	3 Tests Per day	09	P
4	DBM	518.96 Cum	Gradation	2 Test per day	06	P
			Bitumen content	2 test per day	06	P
			Density	One test per 700m^2	16	P

AE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ ಉಪವಿಭಾಗ.
ಜ.ಜ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

5	Tack Coat	17254.48 Sqm	Rate of Spray	3 Tests Per day	15	P
6	BC	690.18 Cum	Gradation	2 Test per day	10	P
			Bitumen content	2 test per day	10	P
			Density	One test per 700m^2	33	P
7	Steel	22.03 Tonne	Tensile Strenth	IS: 1608 (Part 1) - 2018, IS: 1599 - 2019 and IS: 1786-2008 (Reaffirmed 2018)	3 Set	P
8	100mm thick Drain Covering Slab	1444.25 Sqm	Compressive strength	'IS:516-1959 (Reaffirmed 1999), SP-24:1983	3 Set	P
9	Kerb	592.00 Nos	Compressive strength	As per 'IS:516-1959	3 Set	P
10	Paver Blocks	904.99 Sqm	Compressive strength	As Per IS 15658: 2021	3 Set	P
11	Concrete Blocks (400x100x200)	104.48 Sqm	Compressive strength of Cubes	IS2185:Part1 -2005 (Reaffimed Year: 2020)	2 Set	P
12	Drain Concrete(M-20)	312.62 Cum	Compressive strength of Cubes	4 set for 50 m^3 and Addition of 1 set for every addition of 50 m^3 of concrete.(6 cubes/day of each grade)	12	P

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ ಬಬಿಬಿಮಪಾಲಿಕೆ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

GSTIN. 29AAECN7468E1Z3

NINETECH INFRA SOLUTIONS PVT LTD

Email Id: info.ninetechinfra@gmail.com
Contact: 7019556969/9535584464

Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri),Nagadevanhalli, BENGALURU – 560056, Karnataka

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL	
Name of the work	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Contractor	Sri K. Venkat Raju
No of Samples Tested	1
Date of Testing	16/03/2023
Date of Report	17/03/2023
Grade of Steel	Fe 500D
Brand	TMT
Test Method	IS: 1608 (Part 1) - 2018, IS: 1599 - 2019 and IS: 1786-2008 (Reaffirmed 2018)
Sample ID	NISPL/Steel/BBMP/002

Sl.No	Brand	Nominal size (dia in mm)	Mass per metre (Kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation, percent on Gauge Length
1	Fe 500D	8	0.397	515	570	18.5
2	Fe 500D	10	0.643	524	585	16.9
3	Fe 500D	12	0.886	538	592	17.8
4	Fe 500D	16	1.642	587	597	19.4

Requirements as per IS:1786 – 2008 (Reaffirmed 2018)

Dia (mm)	Mass per metre (Kg/metre)	0.20 % proof stress/ yield stress (N/mm^2)	Ultimate Tensile Strength (N/mm^2)	Elongation, percent on Gauge Length, min
8	0.395	500D	565 or 10% more than Actual Proof Stress whichever is higher	16.0
10	0.617	500D	565 or 10% more than Actual Proof Stress whichever is higher	16.0
12	0.888	500D	565 or 10% more than Actual Proof Stress whichever is higher	16.0
16	1.487	500D	565 or 10% more than Actual Proof Stress whichever is higher	16.0

Authorized signature
Quality Manager

End of Report

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಎಂಜಿನಿಯರ್
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-೫೬

GSTIN. 29AAECN7468E1Z3

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TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL	
Name of the work	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Contractor	Sri K. Venkat Raju
No of Samples Tested	2
Date of Testing	17/03/2023
Date of Report	18/03/2023
Grade of Steel	Fe 500D
Brand	TMT
Test Method	IS: 1608 (Part 1) - 2018, IS: 1599 - 2019 and IS: 1786-2008 (Reaffirmed 2018)
Sample ID	NISPL/Steel/BBMP/003

Sl.No	Brand	Nominal size (dia in mm)	Mass per metre (Kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation, percent on Gauge Length
1	Fe 500D	8	0.400	516	572	16.5
2	Fe 500D	10	0.641	523	580	17.5
3	Fe 500D	12	0.882	539	590	18.9
4	Fe 500D	16	1.641	585	591	19.6

Requirements as per IS:1786 – 2008 (Reaffirmed 2018)

Dia (mm)	Mass per metre (Kg/metre)	0.20 % proof stress/ yield stress (N/mm^2)	Ultimate Tensile Strength (N/mm^2)	Elongation, percent on Gauge Length, min
8	0.395	500D	565 or 10% more than Actual Proof Stress whichever is higher	16.0
10	0.617	500D	565 or 10% more than Actual Proof Stress whichever is higher	16.0
12	0.888	500D	565 or 10% more than Actual Proof Stress whichever is higher	16.0
16	1.487	500D	565 or 10% more than Actual Proof Stress whichever is higher	16.0

End of Report

Authorized signature
Quality Assurer

NINETECH INFRA SOLUTIONS PVT LTD

GSTIN. 29AAECN7468E1Z3

NINETECH
INFRA SOLUTIONS PVT LTD

Email Id: info.ninetechinfra@gmail.com
Contact: 7019556969/9535584464

Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri),Nagadevanahalli, BENGALURU – 560056, Karnataka

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL	
Name of the work	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Contractor	Sri K. Venkat Raju
No of Samples Tested	3
Date of Testing	15/03/2023
Date of Report	15/03/2023
Grade of Steel	Fe 500D
Brand	TMT
Test Method	IS: 1608 (Part 1) - 2018, IS: 1599 - 2019 and IS: 1786-2008 (Reaffirmed 2018)
Sample ID	NISPL/Steel/BBMP/004

Sl.No	Brand	Nominal size (dia in mm)	Mass per metre (Kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation, percent on Gauge Length
1	Fe 500D	8	0.392	514	575	18.1
2	Fe 500D	10	0.641	521	586	17.5
3	Fe 500D	12	0.885	533	591	19.2
4	Fe 500D	16	1.640	584	591	17.6

Requirements as per IS:1786 – 2008 (Reaffirmed 2018)

Dia (mm)	Mass per metre (Kg/metre)	0.20 % proof stress/ yield stress (N/mm^2)	Ultimate Tensile Strength (N/mm^2)	Elongation, percent on Gauge Length, min
8	0.395	500D	565 or 10% more than Actual Proof Stress whichever is higher	16.0
10	0.617	500D	565 or 10% more than Actual Proof Stress whichever is higher	16.0
12	0.888	500D	565 or 10% more than Actual Proof Stress whichever is higher	16.0
16	1.487	500D	565 or 10% more than Actual Proof Stress whichever is higher	16.0

Authorised Signatory
Quality Manager

NINETECH INFRA SOLUTIONS PVT LTD

End of Report

GSTIN: 29AAECN7468E1Z3

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INFRA SOLUTIONS PVT LTD

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Corp. Off: #14, 3rd Floor, Hithas complex, 80 feet Ring Road (Kengeri), Nagadevanahalli, BENGALURU – 560056, Karnataka

Report No: - NISPL-830119000000001023

TEST REPORT ON COMPRESSION STRENGTH OF CONCRETE CUBES

Name of the work	Improvements To Roads and Drains And Other Developmental Works At Akskshaya,Thirumalanagar,Muneshwara Layout,Sri Sai Layout, B Sector And Surrounding Areas in Ward No-03 And 04 Of Yelahanka Division Under Amruth Nagarothan Grants[PACKAGE NO-03]
Name of the Road	3rd B Cross Rd
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Contractor	Sri K. Venkat Raju
Concrete Used for	Wall Copping
Date of Casting	12/04/2023
Date of Testing	19/04/2023
Date of Report	21/04/2023
Cross Sectional Area	22500 mm²
Grade of Concrete	M20
Period of curing	7days
Sample ID	NISPL/2023-24/1023

Sl.No.	Test method	Size of Cube In mm	Failure load (KN)	Compressive strength (N/mm²)	Average Compressive Strength(N/mm²)	Remarks
1	Is: 516 (Part-1/Sec 1): 2021	150x150x150	334.04	14.85	14.53	Strength requirement for 7 days is satisfied. I. e 13.5N/mm²
2		150x150x150	328.58	14.60		
3		150x150x150	317.98	14.13		

Test Result Conclusion: The sample tested is satisfactory in accordance to IS: 516 (Part-1/Sec 1): 2021

Note: -

1. The report shall not be reproduced, except in part/ full, without the written approval of the Ninetech infra solutions Pvt. Ltd.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any query regarding the report must be reported within 3 days from the date of testing.

Authorized signature
Rahul
Quality Manager

End of Report

Material Testing Laboratory Facility: VS KANASU NANASU. 199/1, 3rd Cross, Jagajyothi Layout, Nagadevanahalli, Bangalore-560056 E-mail: info.ninetechinfra@gmail.com

GSTIN: 29AAECN7468E1Z3

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INFRA SOLUTIONS PVT LTD

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Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri), Nagadevanahalli, BENGALURU – 560056, Karnataka

Report No: -NISPL-830119000000001024

TEST REPORT ON COMPRESSION STRENGTH OF CONCRETE CUBES

Name of the work	Improvements To Roads and Drains And Other Developmental Works At Akskshaya,Thirumalanagar,Muneshwara Layout,Sri Sai Layout, B Sector And Surrounding Areas in Ward No-03 And 04 Of Yelahanka Division Under Amruth Nagarothan Grants[PACKAGE NO-03]
Name of the Road	3rd B Cross Rd
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Contractor	Sri K. Venkat Raju
Concrete Used for	Wall Copping
Date of Casting	13/04/2023
Date of Testing	20/04/2023
Date of Report	22/04/2023
Cross Sectional Area	22500 mm^2
Grade of Concrete	M20
Period of curing	7days
Sample ID	NISPL/2023-24/1024

Sl.No.	Test method	Size of Cube In mm	Failure load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength(N/mm^2)	Remarks
1	Is: 516 (Part-1/Sec 1): 2021	150x150x150	328.23	14.59	14.55	Strength requirement for 7 days is satisfied. I. e 13.5N/mm^2
2		150x150x150	330.40	14.68		
3		150x150x150	323.82	14.39		

Test Result Conclusion: The sample tested is satisfactory in accordance to IS: 516 (Part-1/Sec 1): 2021

Note: -

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Authorized signatory
Quality Manager

NINETECH INFRA SOLUTIONS PVT LTD

End of Report

Material Testing Laboratory Facility: VS KANASU NANASU. 199/1/A, A Cross, jagajyothi Layout, Nagadevanahalli, Bangalore-560056 E-mail: info.ninetechinfra@gmail.com

GSTIN. 29AAECN7468E1Z3

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Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri), Nagadevanhalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Client	Bruhat Bangalore Mahanagara Palike
Contractor	Sri K. Venkat Raju
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.
No.of Sample Tested	2
Date of Testing	22-05-2023
Techinical Reference	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	M20 - 100mm thick

PRECAST SLAB (CORE) TEST REPORT

OBSERVATIONS

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm²)	Equivalent Cube Compressive Strength (N/mm²)
1	50	100	0.54	2750.19742	2.00	0.96	31.21	15.895	17.167	16.480	20.600
2	50	100	0.59	3004.84533	2.00	0.96	30.91	15.742	17.002	16.322	20.402
3	50	100	0.58	2953.91574	2.00	0.96	31.33	15.956	17.233	16.543	20.679

Authorized Representative (For Contractor)	Authorized Representative (For PMC)	Authorized Representative (For Client)

GSTIN. 29AAECN7468E1Z3

NINETECH
INFRA SOLUTIONS PVT. LTD.

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Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri), Nagadevanahalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagaru, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Client	Bruhat Bangalore Mahanagara Palike
Contractor	Sri K. Venkat Raju
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.
No.of Sample Tested	3
Date of Testing	24-05-2023
Techinical Reference	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	M20 - 100mm thick

PRECAST SLAB (CORE) TEST REPORT

OBSERVATIONS

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm²)	Equivalent Cube Compressive Strength (N/mm²)
1	50	100	0.56	2852.05658	2.00	0.96	30.91	15.742	17.002	16.322	20.402
2	50	100	0.57	2902.98616	2.00	0.96	31.12	15.849	17.117	16.433	20.541
3	50	100	0.51	2597.40867	2.00	0.96	33.23	16.924	18.278	17.547	21.933

INFRA SOLUTIONS PVT. LTD. Bangalore

Authorized Representative (For Contractor)	Authorized Representative (For PMC)	Authorized Representative

GSTIN 29AAECN7468E1Z3

NINETECH
INFRA SOLUTIONS PVT LTD.

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Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri), Nagadevanahalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Client	Bruhat Bangalore Mahanagara Palike
Contractor	Sri K. Venkat Raju
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.
No.of Sample Tested	1
Date of Testing	16-05-2023
Techinical Reference	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	M20

KERB STONE (CORE) COMPRESSION TEST REPORT

OBSERVATIONS

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm²)	Equivalent Cube Compressive Strength (N/mm²)
1	50.00	85.00	0.420	2516.52	1.70	0.960	40.00	20.37	22.00	21.12	26.40
2	50.00	85.00	0.415	2486.56	1.70	0.960	41.10	20.93	22.61	21.70	27.13
3	50.00	85.00	0.420	2516.52	1.70	0.960	40.20	20.47	22.11	21.23	26.53

NINETECH INFRA SOLUTIONS PVT. LTD. Bangalore

Authorized Representative (For Contractor)

Authorized Representative (For PMC)

Authorized Representative

GSTIN. 29AAECN7468E1Z3

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Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri), Nagadevanahalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Client	Bruhat Bangalore Mahanagara Palike
Contractor	Sri K. Venkat Raju
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.
No.of Sample Tested	1
Date of Testing	16-05-2023
Techinical Reference	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	M20

KERB STONE (CORE) COMPRESSION TEST REPORT

OBSERVATIONS

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm²)	Equivalent Cube Compressive Strength (N/mm²)
1	50.00	85.00	0.420	2516.52	1.70	0.960	42.30	21.54	23.27	22.34	27.92
2	50.00	85.00	0.415	2486.56	1.70	0.960	41.50	21.14	22.83	21.91	27.39
3	50.00	85.00	0.420	2516.52	1.70	0.960	40.20	20.47	22.11	21.23	26.53

Authorized Representative (For Contractor)	Authorized Representative (For PMC)	Authorized Representative (For Client)

GSTIN 29AAECN7468E1Z3

NINETECH
INFRA SOLUTIONS PVT LTD

Email Id: info.ninetechinfra@gmail.com
Contact: 7019556969/9535584464

Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri), Nagadevanahalli, BENGALURU – 560056, Karnataka

Report No: - NISPL-830119000000001054

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID BLOCKS

Sample Number	NISPL/2023-24/1054	**ULR Number:**	IC142022000000152F
Client Name & Address:	BBMP, Yelahanka Division, Package no-03	**Sample condition as received:**	Good
		Source of Sample:	Sample supplied by the customer
Name of Work:	Improvements To Roads and Drains, Yelahanka Division, Package no-03	**Sample Quantity:**	03 No's
Project Location:	Vaidhika Sabha Building, Ward No-3 Yelahanka Bengaluru	**Sample Type:**	Concrete Blocks
Letter Reference:	Letter Dated: 11/05/2023	**Environmental Conditions :**	31° C
Date of Receipt:	11/03/2023	**Period of Test:**	12/03/2023 To 12/03/2023
Customer provide details:	**Size of specimen:** 400x100x200mm		

Technical Reference: IS 2185 (Part 1) 1983 RA 2015

Sl. No	Dimensions (mm)			Weight (Kg)	Cross Sectional Area(mm^2)	Failure Load (K N)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	L	B	D					
1	400	100	200	19.01	40000	210	5.25	5.21N/ mm^2
2	399	100	202	18.91	39900	201	5.03	
3	401	100	203	19.65	40100	215	5.36	

Test Result Conclusion: The sample tested is satisfactory in accordance to IS: 516-1959

Note: -

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory
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Authorized signature
Quality Manager

End of Report

Material Testing Laboratory Facility: VS KANASU NANASU. 199/1/A, 4th Cross, Jagajyothi Layout, Nagadevanahalli, Bangalore-560056 E-mail: info.ninetechinfra@gmail.com

GSTIN: 29AAECN7468E1Z3

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Contact: 7019556969/9535584464

Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri), Nagadevanahalli, BENGALURU – 560056, Karnataka

Report No: - NISPL-830119000000001051

TEST REPORT ON COMPRESSIVE STRENGTH OF PAVER BLOCK

Name of the work	Improvements To Roads and Drains And Other Developmental Works At Akskshaya,Thirumalanagar,Muneshwara Layout,Sri Sai Layout, B Sector And Surrounding Areas in Ward No-03 And 04 Of Yelahanka Division Under Amruth Nagarothan Grants[PACKAGE NO-03]
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Contractor	Sri K. Venkat Raju
Concrete Used for	Paver Block
Date of Testing	12/05/2023
Date of Report	13/0/2023
Sample ID	NISPL/2023-24/1051

Sl.No	Test method	Size of Blocks In mm			Weight of Block Kgs	Cross sectional Area	Failure load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
		L	W	H		mm^2			
1	IS15658 – 2021	202.4	202.3	62.8	5870	40945.52	1668.5	40.75	40.86
2		201.3	201.2	62.5	5865	40501.56	1665.4	41.12	
3		202.2	202.4	62.7	5868	40925.28	1666.5	40.72	

Test Result Conclusion: The sample tested is satisfactory in accordance to **IS15658 – 2021**

Note: -

1. The report shall not be reproduced, except in part/ full, without the written approval of the Ninetech infra solutions Pvt. Ltd.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any query regarding the report must be reported within 3 days from the date of testing.

NINETECH INFRA SOLUTIONS Bangalore

Authorised signature
Quality Manager

End of Report

ಸಹಾಯಕ ಕಂದಾಯ ಅಧಿಕಾರಿ
ಯಲಹಂಕ ನಾಡಕಚೇರಿ ಬೆಂಗಳೂರು.
ಜಿ.ಬಿ.ಎ.ಪಿ. ಬೆಂಗಳೂರು-106

GSTIN: 29AAECN7468E1Z3

NINETECH INFRA SOLUTIONS PVT LTD

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Contact: 7019556969/9535584464

Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri), Nagadevanhalli, BENGALURU – 560056, Karnataka

Report No: - NISPL-8301190000000001052

TEST REPORT ON COMPRESSIVE STRENGTH OF PAVER BLOCK

Name of the work	Improvements To Roads and Drains And Other Developmental Works At Akskshaya,Thirumalanagar,Muneshwara Layout,Sri Sai Layout, B Sector And Surrounding Areas in Ward No-03 And 04 Of Yelahanka Division Under Amruth Nagarothan Grants[PACKAGE NO-03]
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Contractor	Sri K. Venkat Raju
Concrete Used for	Paver Block
Date of Testing	15/05/2023
Date of Report	16/05/2023
Sample ID	NISPL/2023-24/1052

Sl.No	Test method	Size of Blocks In mm			Weight of Block Kgs	Cross sectional Area	Failure load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
		L	W	H		mm^2			
1	IS15658 – 2021	202.1	202.1	62.9	5866	40844.41	1666.3	40.79	40.85
2		201.4	201.1	62.6	5861	40501.54	1664.2	41.08	
3		202.2	202.3	62.4	5865	40905.06	1665.2	40.70	

Test Result Conclusion: The sample tested is satisfactory in accordance to **IS15658 – 2021**

Note: -

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any query regarding the report must be reported within 3 days from the date of testing.

NINETECH INFRA SOLUTIONS Bangalore

Authorised signature
Quality Manager

End of Report

ಸಹಾಯಕ ಕಾರ್ಯ ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ ಉಪವಿಭಾಗ,
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

GSTIN: 29AAECN7468E1Z3

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Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri), Nagadevanahalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru MahanagaraPalike

Name of Work :Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)		
Name of Road: Attur Layout 10th Main Road		
Client : BRUHAT BANGALORE MAHANAGARA PALIKE.		
Consultant : M/s Ninetech Infra Solutions Pvt. Ltd.		
Contractor : Sri K. Venkat Raju		
FIELD DENSITY TEST ON **WMM** TEST METHOD: IS: 2720 (PART-28)		
Chainage	Date of Testing:	04/05/2023
Description of layer : WMM	Lab Density (g/c.c):	2.15
OMC % : 6.2	Density of Sand Ys:(g/c.c)	1.4

OBSERVATIONS

Description	1	2	3	4	5
Location of Test in mtr					
Offset from edge in mtr	3	1.9	2.2	2.3	2.7
Wt of Soil/GSB/WMM in hole W gms	4280	4206	4220	4245	4227
Wt of cylinder filled with sand before pouring W_1 g	16500	16500	16500	16500	16500
Wt of cylinder filled with sand after pouring W_2 g	12904.3	12915.3	12916.3	12903.2	12906.3
Wt of sand in conical portion Wc in gms	980	980	980	980	980
Sand in hole Wh=W1-W2-Wc in gms	2615.70	2604.70	2603.70	2616.80	2613.70
Volume of pit $V=W_h/Ys$ g/cc	1868.36	1860.50	1859.79	1869.14	1866.93
Bulk (Wet) density of $Y_b=W/V$ g/cc	2.29	2.26	2.27	2.27	2.26
Rapid moisture meter reading=m	6.3	6.4	6.5	6.4	6.2
Field moisture content FMC in %	6.99	7.10	7.22	7.10	6.88
Field dry density in g/cc=(Yb/1+(FMC/100))	2.141	2.111	2.116	2.120	2.118
Degree of compaction in %	99.58	98.17	98.44	98.63	98.53
Remarks:					

Authorized Representative
(For Contractor)

NINETECH INFRA SOLUTIONS Bangalore

Authorized Representative
(For PMC)

Authorized Representative
For Engineer-10

GSTIN 29AAECN7468E1Z3

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Corp. Off: #14, 3rd Floor, Hubha complex, 80 feet Ring Road (Kengeri), Nagadevanahalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work :Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward N 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants (PACKAGE No-03)

Name of Road: SFS 208, 1st Main Rd

Client : BRUHAT BANGALORE MAHANAGARA PALIKE.

Consultant : M/s Ninetech Infra Solutions Pvt. Ltd.

Contractor : Sri K. Venkat Raju

FIELD DENSITY TEST ON WMM
TEST METHOD: IS: 2720 (PART-28)

Chainage	Date of Testing:	21/05/2023
Description of layer : WMM	Lab Density (g/c.c):	2.15
OMC % : 6.2	Density of Sand Ys:(g/c.c)	1.4

OBSERVATIONS

Description	1	2	3	4	5
Location of Test in mtr					
Offset from edge in mtr	1.8	1.7	2.1	1.4	2.6
Wt of Soil/GSB/WMM in hole W gms	4218	4130	4130	4125	4123
Wt of cylinder filled with sand before pouring W_1 g	16500	16500	16500	16500	16500
Wt of cylinder filled with sand after pouring W_2 g	12915.5	12920.2	12930.2	12931.2	12930.2
Wt of sand in conical portion Wc in gms	980	980	980	980	980
Sand in hole Wh=W1-W2-Wc in gms	2604.50	2599.80	2589.80	2588.80	2589.80
Volume of pit V=W_h/Ys g/cc	1860.36	1857.00	1849.86	1849.14	1849.86
Bulk (Wet) density of Y_b=W/V g/cc	2.27	2.22	2.23	2.23	2.23
Rapid moisture meter reading=m	6.50	4.90	4.90	4.90	4.90
Field moisture content FMC in %	7.22	5.44	5.44	5.44	5.44
Field dry density in g/cc=(Yb/1+(FMC/100))	2.115	2.109	2.117	2.116	2.114
Degree of compaction in %	98.36	98.11	98.49	98.40	98.32

Remarks:

Authorized Representative
(For Contractor)

Authorized Representative
(For PMC)

Authorized Representative
(For Client)

GSTIN. 29AAECN7468E1Z3

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Corp. Off: #14, 3rd Floor, Hithan complex, 80 feet Ring Road (Kengeri), Nagadevanahalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike	
Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.
Contractor	Sri K. Venkat Raju

GRADATION TEST ON WMM

Name of Road	Attur Layout, 10th Main Road	
Description of Material	WMM	Date of Sampling: 15/04/2023
Source of Material	Nelmangala	Date of Testing: 15/04/2023
Sample No	1	Total Weight:10000.00gms

OBSERVATIONS

IS Sieve Size in mm	Wt.Retained (gm)	Cum. Wt.Retained (gm)	% Retained	% Passing	MORT&H specification	Remarks
53	0	0	0	100	100	
45	320	320	3.2	96.8	95-100	
22.4	2240	2560	25.6	74.4	60-80	
11.2	2445	5005	50.05	49.95	40-60	
4.75	1998	7003	70.03	29.97	25-40	
2.36	900	7903	79.03	20.97	15-30	
0.6	1170	9073	90.73	9.27	8-22	
0.075	927	10000	100	0	0-5	
	10000					

Remarks: Test Results are in confirmation with MORT&H

Authorized Representative
(For Contractor)

NINETECH INFRA SOLUTIONS PVT LTD
560056

Authorized Representative
(For PMC)

Authorized Representative
(For Client)

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Bruhat Bengaluru Mahanagara Palike

Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagaru, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.
Contractor	Sri K. Venkat Raju

GRADATION TEST ON WMM

Name of Road	Vijaya Bank Layout,1st Cross Road	
Description of Material	WMM	Date of Sampling: 19/05/2023
Source of Material	Nelmangala	Date of Testing: 19/05/2023
Sample No	1	Total Weight:10000.00gms

OBSERVATIONS

IS Sieve Size in mm	Wt.Retained (gm)	Cum. Wt.Retained (gm)	% Retained	% Passing	MORT&H specification	Remarks
53	0	0	0	100	100	
45	318	318	3.18	96.82	95-100	
22.4	2243	2561	25.61	74.39	60-80	
11.2	2430	4991	49.91	50.09	40-60	
4.75	1990	6981	69.81	30.19	25-40	
2.36	918	7899	78.99	21.01	15-30	
0.6	1168	9067	90.67	9.33	8-22	
0.075	933	10000	100	0	0-5	
	10000					

Remarks: Test Results are in confirmation with MORT&H.

Authorized Representative
(For Contractor)

Authorized Representative
(For BBMP)

NINETECH INFRA SOLUTIONS PVT. LTD.

Authorized Representative

GSTIN. 29AAECN7468E1Z3

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Bruhat Bengaluru Mahanagara Palike	
Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants (PACKAGE No-03)
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd
Contractor	Sri K. Venkat Raju

GRADATION TEST ON WMM

Name of Road	BHEL Layout, 8th Cross Rd	
Description of Material	WMM	Date of Sampling: 21/05/2023
Source of Material	Nelmangala	Date of Testing: 21/05/2023
Sample No	1	Total Weight:10000.00gms

OBSERVATIONS

IS Sieve Size in mm	Wt.Retained (gm)	Cum. Wt Retained (gm)	% Retained	% Passing	MORT&H specification	Remarks
53	0	0	0	100	100	
45	318	318	3.18	96.82	95-100	
22.4	2240	2558	25.58	74.42	60-80	
11.2	2445	5003	50.03	49.97	40-60	
4.75	2001	7004	70.04	29.96	25-40	
2.36	903	7907	79.07	20.93	15-30	
0.6	1170	9077	90.77	9.23	8-22	
0.075	920	9997	99.97	0.03	0-5	
	10000					

Remarks: Test Results are in confirmation with MORT&H.

Authorized Representative
(For Contractor)

NINETECH INFRA SOLUTIONS PVT. LTD. Bangalore

Authorized Representative
(For PMC)

Authorized Representative
(For Client)

GSTIN: 29AAECN7468L1Z3

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Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri),Nagadevanahalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Name of Road	Attur Layout, 1st Cross Rd
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.
Contractor	Sri K. Venkat Raju

RATE OF SPRAY OF TACK COAT/ **PRIME COAT**

TEST METHOD :(IRC SP 11-1988)

Description of Material:	PRIME COAT	Date of Testing: 25-04-2023
Source of Material:	Nelmangala	
Area of tray :	0.25 m^2	Speed of vehicle:4Kmph

OBSERVATIONS

Plate No.	Weight of tray before spray	Weight of tray after spray	Weight of material on the plate	Rate of spray	Average rate of spray	Remarks
1	2785	3009	224	0.896	0.84	Day-1
2	2805	3012	207	0.828		
3	2816	3016	200	0.8		
1	2813	3004	191	0.764	0.80	Day-2
2	2802	3001	199	0.796		
3	2805	3018	213	0.852		

Remarks: Rate of spray of Prime coat required is 0.7Kg/m^2. Which is Achieved in site.

Authorized Representative
(For Contractor)

Authorized Representative

NINETECH INFRA SOLUTIONS PVT LTD 560056

Authorized Representative
(For Client)

GSTIN: 29AAECN7468E1Z3

NINETECH
INFRA SOLUTIONS PVT LTD.

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Corp. Off: #14, 3rd Floor, Hithan complex, 80 feet Ring Road (Kengeri),Nagadevanhalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike		
Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)	
Client	Bruhat Bengaluru MahanagaraPalike, Bangalore	
Consultant	M/s Nmetech Infra Solutions Pvt. Ltd.	
Contractor	Sri K. Venkat Raju	
GRADATION TEST ON DBM		
Name of Road	Attur Layout, 10th Main Road	
Description of Material	DBM	Date of Sampling: 18-04-2023
Source of Material	Nelmangala	Date of Testing: 18-04-2023
Sample No	3	Total Weight:1000.00gms

OBSERVATIONS

IS Sieve Size in mm	Wt.Retained (gm)	Cum. Wt.Retained (gm)	% Retained	% Passing	MORT&H specification	Remarks
37.5	0	0	0	100	100	
26.5	72.6	72.6	7.26	92.74	90-100	
19	131.2	203.8	20.38	79.62	71-95	
13.2	194.0	397.8	39.78	60.22	56-80	
4.75	190.2	588.0	58.80	41.20	38-54	
2.36	111.2	699.2	69.92	30.08	28-42	
0.3	175.2	874.4	87.44	12.56	7-21	
0.075	105.5	979.9	97.99	2.01	2-8	
	1000					

Remarks: Test Results are in confirmation with MORT&H

Authorized Representative
(For Contractor)

NINETECH INFRA SOLUTIONS PVT. LTD. Bangalore 560056

Authorized Representative
(For PMC)

Authorized Representative
(For Client)

GSTIN. 29AAECN7468E1Z3

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Corp. Off: #14, 3rd Floor, Hithan complex, 80 feet Ring Road (Kengeri),Nagadevanhalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike	
Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03).
Client	Bruhat Bengaluru MahanagaraPalike, Bangalore
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd
Contractor	Sri K. Venkat Raju
GRADATION TEST ON DBM	
Name of Road	Akshaya Nagar Main Road
Description of Material	DBM — Date of Sampling: 18-04-2023
Source of Material	Nelmangala — Date of Testing: 18-04-2023
Sample No	4 — Total Weight:1000.00gms

OBSERVATIONS

IS Sieve Size in mm	Wt.Retained (gm)	Cum Wt.Retained (gm)	% Retained	% Passing	MORT&H specification	Remarks
37.5	0	0	0	100	100	
26.5	56.0	56	5.6	94.4	90-100	
19	113.2	169.2	16.92	83.08	71-95	
13.2	181.0	350.2	35.02	64.98	56-80	
4.75	183.4	533.6	53.36	46.64	38-54	
2.36	91.4	625	62.5	37.50	28-42	
0.3	188.0	813	81.3	18.70	7-21	
0.075	138.6	951.6	95.16	4.84	2-8	
	1000					

Remarks: Test Results are in confirmation with MORT&H

Authorized Representative
(For Contractor)

NINETECH INFRA SOLUTIONS PVT LTD Bangalore 560056

Authorized Representative
(For PMC)

GSTIN: 29AAECN7468E1Z3

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Corp. Off: #14, 3rd Floor, Hithas complex, 80 feet Ring Road (Kengeri),Nagadevanhalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Client	Bruhat Bengaluru MahanagaraPalike, Bangalore
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.
Contractor	Sri K. Venkat Raju

DBM Density TEST

TEST METHOD: IRC SP-11

Road Name		Date of Testing: 03-05-2023	
	Attur Layout, 10th Main Road		
Description of layer:	DBM	Lab Density (g/c.c)	2.33
Source of material:	Nelmangala	Density of Sand Ys(g/c.c):	1.4

OBSERVATIONS

Sl No.	Description	1	2	3	4	Remarks
1	Location of Test in mtr					
2	Offset from edge in mtr	2.5	1.8	1.6	1.8	
3	Wt. of DBM in hole W gms	548.8	542.4	559.8	569.5	
4	Wt. of cylinder filled with sand before pouring W_1 g	6500	6500	6500	6500	
5	Wt. of cylinder filled with sand after pouring W_2 g	5790.3	5795.6	5781.6	5780.5	
6	Wt. of sand in conical portion Wc in gms	357	357	357	357	
7	Sand in hole $W_h = W_1 - W_2 - Wc$ in gms	352.7	347.4	361.4	362.5	
8	Volume of pit $V = W_h/Ys$ g/cc	251.93	248.14	258.14	258.93	
9	Density of $Y_h = W/V$ g/cc	2.18	2.19	2.17	2.20	
10	Degree of compaction in %	93.49	93.81	93.07	94.40	

Remarks: Test Results are in confirmation with MORT&H

Authorized Representative
(For Contractor)

Authorized Representative
(For PMC)

Authorized Representative
(For Client)

GSTIN: 29AAECN7468E1Z3

NINETECH INFRA SOLUTIONS PVT. LTD

Email Id: info.ninetechinfra@gmail.com
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Corp. Off: #14, 3rd Floor, Hithas complex, 80 feet Ring Road (Kengeri), Nagadevanahalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants (PACKAGE No-03)
Client	Bruhat Bengaluru MahanagaraPalike, Bangalore
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.
Contractor	Sri K. Venkat Raju

DBM Density TEST

TEST METHOD: IRC SP-11

		Date of Testing: 10-05-2023	
Road Name	Front Of Private Resistance door No-27		
Description of layer:	DBM	Lab Density (g/c.c):	2.33
Source of material:	Nelmangala	Density of Sand Ys(g/c.c):	1.4

OBSERVATIONS

Sl No.	Description	1	2	3	4	Remarks
1	Location of Test in mtr					
2	Offset from edge in mtr	2.5	1.8	1.6	1.8	
3	Wt. of DBM in hole W gms	546.5	541.2	540.8	562.5	
4	Wt. of cylinder filled with sand before pouring W_1 g	6500	6500	6500	6500	
5	Wt. of cylinder filled with sand after pouring W_2 g	5790.3	5795.8	5800.6	5782.5	
6	Wt. of sand in conical portion Wc in gms	357	357	357	357	
7	Sand in hole $W_s=W_1-W_2-Wc$ in gms	352.7	347.2	342.4	360.5	
8	Volume of pit $V=W_s/Ys$ g/cc	251.93	248.00	244.57	257.50	
9	Density of $Y_s=W/V$ g/cc	2.17	2.18	2.21	2.18	
10	Degree of compaction in %	93.10	93.66	94.90	93.75	

Remarks: Test Results are in confirmation with MORT&H.

NINETECH INFRA SOLUTIONS PVT. LTD. Bangalore

Authorized Representative (For Contractor)

Authorized Representative (For PMC)

Authorized Representative

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ಜ.ಜ.ಎಂ.ಕೆ. ಬೆಂಗಳೂರು-106

GSTIN. 29AAECN7468E1Z3

NINETECH
INFRA SOLUTIONS PVT LTD

Email Id: info.ninetechinfra@gmail.com
Contact: 7019556969/9535584464

Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri), Nagadevanahalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Name of Road	1st A Main Road
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.
Contractor	Sri K Venkat Raju

RATE OF SPRAY OF **TACK COAT**/ PRIME COAT

TEST METHOD :(IRC SP 11-1988)

Description of Material:	TACK COAT	Date of Testing: 28-04-2023
Source of Material:	Nelmangala	
Area of tray.	0.25 m^2	Speed of vehicle:4Kmph

OBSERVATIONS

Plate No.	Weight of tray before spray (gm)	Weight of tray after spray (gm)	Weight of material on the plate (gm)	Rate of spray	Average rate of spray	Remarks
1	2539	2615	76	0.304		
2	2640	2725	85	0.34	0.32	Day-1
3	2790	2868	78	0.312		
1	2545	2626	81	0.324		
2	2648	2729	81	0.324	0.32	Day-2
3	2797	2876	79	0.316		

Remarks: Rate of spray of Tackcoat required is 0.3Kg/m^2. Which is Achieved in site.

Authorized Representative (For Contractor)

Authorized Representative (For BBMP)

NINETECH INFRA SOLUTIONS PVT LTD

GSTIN 29AAECN7468E1Z3

NINETECH
INFRA SOLUTIONS PVT LTD

Email Id: info.ninetechinfra@gmail.com
Contact: 7019556969/9535584464

Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri), Nagadevanahalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Name of Road	5th Phase 2nd Main Rd
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	M/s Ninetech Infra Solutions Pvt Ltd
Contractor	Sri K Venkat Raju

RATE OF SPRAY OF TACK COAT/ PRIME COAT

TEST METHOD :(IRC SP 11-1988)

Description of Material:	TACK COAT	Date of Testing: 04-05-2023
Source of Material:	Nelmangala	
Area of tray :	0.25 m^2	Speed of vehicle:4Kmph

OBSERVATIONS

Plate No.	Weight of tray before spray (gm)	Weight of tray after spray (gm)	Weight of material on the plate (gm)	Rate of spray	Average rate of spray	Remarks
1	2580	2582	82	0.328		
2	2600	2676	76	0.304	0.315	Day-1
3	2752	2830	78	0.312		
1	2504	2590	86	0.344		
2	2610	2683	73	0.292	0.319	Day-1
3	2760	2840	80	0.32		

Remarks: Rate of spray of Tackcoat required is 0.3Kg/m^2. Which is Achieved in site.

Authorized Representative
(For Contractor)

Authorized Representative
(For PMC)

(For Client)

GSTIN: 29AAECN7468E1Z3

NINETECH INFRA SOLUTIONS PVT LTD

Email Id: info.ninetechinfra@gmail.com
Contact: 7019556969/9535584464

Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri),Nagadevanhalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Name of Road	Attur Layout, 10th Main Road
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.
Contractor	Sri K.Venkat Raju

RATE OF SPRAY OF TACK COAT/ PRIME COAT

TEST METHOD :(IRC SP 11-1988)

Description of Material:	TACK COAT	Date of Testing: 10-05-2023
Source of Material:	Nelmangala	
Area of tray :	0.25 m^2	Speed of vehicle:4Kmph

OBSERVATIONS

Plate No.	Weight of tray before spray (gm)	Weight of tray after spray (gm)	Weight of material on the plate (gm)	Rate of spray	Average rate of spray	Remarks
1	2538	2616	78	0.312		
2	2638	2725	87	0.348	0.32	Day-1
3	2790	2868	78	0.312		

Remarks: Rate of spray of Tackcoat required is 0.3Kg/m^2. Which is Achieved in site.

Authorized Representative
(For Contractor)

Authorized Representative
(For PMC)

Authorized Representative

GSTIN 29AAECN7468E1Z3

NINETECH
INFRA SOLUTIONS PVT. LTD.

Email Id: info.ninetechinfra@gmail.com
Contact: 7019556969/9535584464

Corp. Off: 814, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri),Nagadevanhalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike		
Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)	
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore	
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.	
Contractor	Sri K. Venkat Raju	
GRADATION TEST ON BC		
Name of Road	Mamatha Nilaya Rd	
Description of Material	GRADATION TEST ON BC	Date of Sampling: 19-04-2023
Source of Material	Nelmangala	Date of Testing: 19-04-2023
Sample No	1	Total Weight:1000.00gms

OBSERVATIONS

IS Sieve Size in mm	Wt.Retained (gm)	Cum. Wt.Retained (gm)	% Retained	% Passing	MORT&H specification	Remarks
19	0	0	0	100	100	
13.2	61.6	61.6	6.16	93.84	90-100	
9.5	88.6	150.2	15.02	84.98	70-88	
4.75	185.4	335.6	33.56	66.44	53-71	
2.36	124.5	460.1	46.01	53.99	42-58	
1.18	121.5	581.6	58.16	41.84	34-48	
0.6	68.5	650.1	65.01	34.99	26-38	
0.3	95.6	745.7	74.57	25.43	18-28	
0.15	78.9	824.6	82.46	17.54	12-20	
0.075	105.3	929.9	92.99	7.01	4-10	
	1000					

Remarks: Test Results are in confirmation with MORT&H

Authorized Representative (For Contractor)	Authorized Representative (For PMC)	Authorized Representative (For Client)

NINETECH INFRA SOLUTIONS PVT. LTD. Bangalore 560056

GSTIN 29AAECN7468E1Z3

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INFRA SOLUTIONS PVT LTD

Email Id: info.ninetechinfra@gmail.com
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Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri),Nagadevanahalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike		
Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)	
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore	
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.	
Contractor	Sri K. Venkat Raju	
GRADATION TEST ON BC		
Name of Road	Santhosh Nagara, 1st Main Road	
Description of Material	GRADATION TEST ON BC	Date of Sampling: 22-04-2023
Source of Material	Nelmangala	Date of Testing: 22-04-2023
Sample No	1	Total Weight:1000.00gms

OBSERVATIONS

IS Sieve Size in mm	Wt.Retained (gm)	Cum Wt.Retained (gm)	% Retained	% Passing	MORT&H specification	Remarks
19	0	0	0	100	100	
13.2	82	82	8.2	91.8	90-100	
9.5	111	193	19.3	80.7	70-88	
4.75	174	367	36.7	63.3	53-71	
2.36	140.2	507.2	50.72	49.28	42-58	
1.18	135.2	642.4	64.24	35.76	34-48	
0.6	81.5	723.9	72.39	27.61	26-38	
0.3	84.5	808.4	80.84	19.16	18-28	
0.15	60.2	868.6	86.86	13.14	12-20	
0.075	56.0	924.6	92.46	7.54	4-10	
	1000					

Remarks: Test Results are in confirmation with MORT&H.

Authorized Representative
(For Contractor)

Authorized Representative
(For PMC)

NINETECH INFRA SOLUTIONS PVT LTD ★ 560056

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GSTIN: 29AAECN7468E1Z3

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Corp. Off: #14, 3rd Floor, Hithas complex, 80 feet Ring Road (Kengeri),Nagadevanhalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike		
Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)	
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore	
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.	
Contractor	Sri K. Venkat Raju	
GRADATION TEST ON BC		
Name of Road	4th Main Rd	
Description of Material	GRADATION TEST ON BC	Date of Sampling: 01-05-2023
Source of Material	Nelmangala	Date of Testing: 01-05-2023
Sample No	1	Total Weight:1000.00gms

OBSERVATIONS

IS Sieve Size in mm	Wt.Retained (gm)	Cum. Wt.Retained (gm)	% Retained	% Passing	MORT&H specification	Remarks
19	0	0	0	100	100	
13.2	86	86	8.6	91.4	90-100	
9.5	117	203	20.3	79.7	70-88	
4.75	176	379	37.9	62.1	53-71	
2.36	142	521	52.1	47.9	42-58	
1.18	138	659	65.9	34.10	34-48	
0.6	83.5	742.5	74.25	25.75	26-38	
0.3	82.5	825	82.5	17.5	18-28	
0.15	62.5	887.5	88.75	11.25	12-20	
0.075	51.4	938.9	93.89	6.11	4-10	
	1000					

Remarks: Test Results are in confirmation with MORT&H

Authorized Representative (For Contractor)	Authorized Representative (For PMC)	Authorized Representative (For Light)

GSTIN 29AAECN7468E1Z3

NINETECH
INFRA SOLUTIONS PVT LTD.

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Contact: 7019556969/9535584464

Corp. Off: 814, 3rd Floor, Hithas complex, 80 feet Ring Road (Kengeri),Nagadevanhalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike	
Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.
Contractor	Sri K. Venkat Raju

BITUMEN EXTRACTION TEST		
TEST METHOD: IRC SP-11		
Road Name	5th Phase 2nd Main Rd	
Description of layer	BC	Date of Testing: 24-04-2023
Source of material:	Nelmangala	Total weight:500.00gms

OBSERVATIONS

Sl No.	Description	1	2	3	Remarks
1	Weight of mix, W1 (gms)	500	500	500	
2	Weight of sample after extraction W2 (gms)	472.2	472.7	472.3	
3	Weight of filter paper before extraction W3 (gms)	3.7	3.6	3.6	
4	Weight of filter paper after extraction W4 (gms)	3.8	3.6	3.8	
5	Bitumen content by weight of total mix %=[(W1-W2)+(W4-W3)]/W1x100	5.54	5.46	5.51	

Remarks: Test Results are in confirmation with MORT&H.

Authorized Representative
(For Contractor)

Authorized Representative
(For PMC)

Authorized Representative
(For Client)

GSTIN 29AAECN7468E1Z3

NINETECH
INFRA SOLUTIONS PVT LTD

Email Id: info.ninetechinfra@gmail.com
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Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri),Nagadevanahalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work:		Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)			
Client		Bruhat Bengaluru Mahanagara Palike, Bangalore			
Consultant		M/s Ninetech Infra Solutions Pvt. Ltd			
Contractor		Sri K. Venkat Raju			
BITUMEN EXTRACTION TEST					
TEST METHOD: IRC SP-11					
Road Name		1st A Cross Rd Continue			
Description of layer.		BC		Date of Testing: 10-05-2023	
Source of material		Nelmangala		Total weight:500.00gms	
OBSERVATIONS					
Sl No.	Descripuon	1			Remarks
1	Weight of mix, W1 (gms)	500			
2	Weight of sample after extraction W2 (gms)	472.2			
3	Weight of filter paper before extraction W3 (gms)	3.7			
4	Weight of filter paper after extraction W4 (gms)	3.8			
5	Bitumen content by weight of total mix %=[(W1-W2)+(W4-W3)]/W1x100	5.54			
Remarks: Test Results are in confirmation with MORT&H.					
Authorized Representative (For Contractor)		Authorized Representative (BBMP)		Authorized Representative	

GSTIN 29AAECN7468E1Z3

NINETECH
INFRA SOLUTIONS PVT LTD

Email Id: info.ninetechinfra@gmail.com
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Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri),Nagadevanhalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants (PACKAGE No-03).
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.
Contractor	Sri K. Venkat Raju

BC Density TEST

TEST METHOD: IRC SP-11

Road Name	Attur Layout, 10th Main Road	Date of Testing: 02-05-2023	
Description of layer:	BC	Lab Density (g/c.c):	2.38
Source of material:	Nelmangala	Density of Sand Ys(g/c.c):	1.4

OBSERVATIONS

Sl No.	Description	1	2	3	Remarks
1	Offset from edge in mtr	2.2	1.4	1.2	
2	Wt. of DBM in hole W gms	571.8	572.5	550.5	
3	Wt. of cylinder filled with sand before pouring W_1 g	6500	6500	6500	
4	Wt. of cylinder filled with sand after pouring W_2 g	5799.9	5801.2	5810.5	
5	Wt. of sand in conical portion Wc in gms	357	357	357	
6	Sand in hole $W_s=W_1-W_2-Wc$ in gms	343.1	341.8	332.5	
7	Volume of pit $V=W_s/Ys$ g/cc	245.07	244.14	237.50	
8	Density of $Y_s=W/V$ g/cc	2.33	2.34	2.32	
9	Degree of compaction in %	98.03	98.53	97.39	

Remarks: Test Results are in confirmation with MORT&H.

Authorized Representative (For Contractor)	Authorized Representative (For PMC)	Authorized Representative (For Client)

GSTIN 29AALCN7468E1Z3

NINETECH INFRA SOLUTIONS PVT LTD

Email Id: info.ninetechinfra@gmail.com
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Corp. Off: #14, 3rd Floor, Hithas complex, 80 feet Ring Road (Kengeri),Nagadevanhalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.
Contractor	Sri K. Venkat Raju

BC Density TEST

TEST METHOD: IRC SP-11

Road Name	SFS 208, 1st Main Rd	Date of Testing: 25-05-2023	
Description of layer:	BC	Lab Density (g/c.c)	2.38
Source of material:	Nelmangala	Density of Sand Ys(g/c.c)	1.4

OBSERVATIONS

Sl No.	Description	1	2	3	Remarks
1	Offset from edge in mtr	2.6	2.2	2.4	
2	Wt. of DBM in hole W gms	590.5	590.61	608.5	
3	Wt. of cylinder filled with sand before pouring W_1 g	6500	6500	6500	
4	Wt. of cylinder filled with sand after pouring W_2 g	5785	5785.5	5778.4	
5	Wt. of sand in conical portion Wc in gms	357	357	357	
6	Sand in hole $W_h=W_1-W_2-Wc$ in gms	358	357.5	364.6	
7	Volume of pit $V=W_h/Ys$ g/cc	255.71	255.36	260.43	
8	Density of $Y_h=W/V$ g/cc	2.31	2.31	2.34	
9	Degree of compaction in %	97.03	97.18	98.17	

Remarks: Test Results are in confirmation with MORT&H

Authorized Representative (For Contractor)	Authorized Representative (For PMC)	Authorized Representative

GSTIN: 29AAECN7468E1Z3

NINETECH
INFRA SOLUTIONS PVT LTD

Email Id: info.ninetechinfra@gmail.com
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Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri), Nagadevanahalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)			
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore			
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.			
Contractor	Sri K. Venkat Raju			
BC Density TEST				
TEST METHOD: IRC SP-11				
			Date of Testing: 05-05-2023	
Road Name	BHEL Layout, 4th Main road			
Description of layer:	BC		Lab Density (g/c.c):	2.38
Source of material:	Nelmangala		Density of Sand Ys(g/c.c)	1.4

OBSERVATIONS

Sl No.	Description	1	2	3	Remarks
1	Offset from edge in mtr	2.2	1.4	1.2	
2	Wt. of DBM in hole W gms	572.2	572.5	550.8	
3	Wt. of cylinder filled with sand before pouring W_1 g	6500	6500	6500	
4	Wt. of cylinder filled with sand after pouring W_2 g	5792.9	5781.2	5805.5	
5	Wt. of sand in conical portion Wc in gms	357	357	357	
6	Sand in hole $W_s=W_1-W_2-Wc$ in gms	350.1	361.8	337.5	
7	Volume of pit $V=W_s/Ys$ g/cc	250.07	258.43	241.07	
8	Density of $Y_s=W/V$ g/cc	2.29	2.22	2.28	
9	Degree of compaction in %	96.14	93.08	96.00	

Remarks: Test Results are in confirmation with MORT&H

Authorized Representative (For Contractor)

NINETECH INFRA SOLUTIONS PVT LTD Bangalore 560056

Authorized Representative (For Client)

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GSTIN: 29AAECN7468E1Z3

NINETECH
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Email Id: info.ninetechinfra@gmail.com
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Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri),Nagadevanahalli, BENGALURU – 560056, Karnataka

Bruhat Bengaluru Mahanagara Palike

Name of Work	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants (PACKAGE No-03)
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd
Contractor	Sri K. Venkat Raju

BC Density TEST

TEST METHOD: IRC SP-11

		Date of Testing: 12-05-2023	
Road Name	8th Cross Rd		
Description of layer:	BC	Lab Density (g/c.c):	2.38
Source of material:	Nelmangala	Density of Sand Ys(g/c.c):	1.4

OBSERVATIONS

Sl No.	Description	1	2	3	Remarks
1	Offset from edge in mtr	2.5	2.5	2.5	
2	Wt. of DBM in hole W gms	580.2	580.2	580.2	
3	Wt. of cylinder filled with sand before pouring W_1 g	6500	6500	6500	
4	Wt. of cylinder filled with sand after pouring W_2 g	5781.2	5790.2	5785.2	
5	Wt. of sand in conical portion Wc in gms	357	357	357	
6	Sand in hole $W_h=W_1-W_2-Wc$ in gms	361.8	352.8	357.8	
7	Volume of pit $V=W_h/Ys$ g/cc	258.43	252.00	255.57	
8	Density of $Y_b=W/V$ g/cc	2.25	2.30	2.27	
9	Degree of compaction in %	94.33	96.74	95.39	

Remarks: Test Results are in confirmation with MORTH

Authorized Representative (For Contractor)	Authorized Representative (For RMC)	Authorized Representative ಪ್ರತಿನಿಧಿ (For Client)

NINETECH INFRA SOLUTIONS PVT. LTD. Bangalore